

The author of the notes, Dr. C. F. Brooks, is Associate Professor of Meteorology and Climatology in Clark University. Associated with him in the preparation of the material were John Nelson and Eleanor Stabler Brooks. Each note presents in nontechnical language a summary averaging 250 to 300 words in length of what is known or inferred of the various subjects treated. The first note discussed the topic "Dust is all important" and the four hundred and sixty-seventh, which happens to be the last one available to the reviewer, bears the title "The lakes as storm magnets."

In the volume under review the author has brought together in logical sequence, beginning with the spring season, the essential facts of the weather of that season and their explanation as they appear from the viewpoint of a close student and observer of the weather. Doctor Brooks is known to be one of our keenest ob-

servers of weather phenomena. Although the book treats of many phases of the weather, the facts presented are woven into a connected story and the interest of the reader is sustained throughout.—A. J. H.

LOSS OF FORTY-SEVEN HEAD OF CATTLE BY A SINGLE LIGHTNING BOLT

The Hancock (Minn.) Record of August 8, 1924, contains an account of the killing of 47 head of cattle during a thunderstorm (without rain). The cattle had crowded together under the branches of a large spreading willow tree. The tree and the cattle under it were struck by lightning and the latter dropped in their tracks. Bodily contact seems to have provided the means of conveying the charge to the animals.—Reported by Junior Meteorologist William E. Maughan.

BIBLIOGRAPHY

C. FITZHUGH TALMAN, Meteorologist in Charge of Library

RECENT ADDITIONS

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies.

Ångström, Anders.

Preliminär undersökning rörande temperaturförhållanden över torr och sank mark. [Stockholm. 1924.] 7 p. illus. 20 $\frac{1}{2}$ cm. (Repr.: Teknisk tidskrift 1924, häft 4. Väg- och vattenbyggnadskonst 1.)

Studier av Sveriges strålningsklimat. [Stockholm. 1924.] 23 p. illus. 23 $\frac{1}{2}$ cm. (Ymer, Tidskrift utgiven av Svenska sällskapet för antropologi och geografi. Årg. 1924, H. 1.)

Studies of the frost problem. no. 3. [Stockholm. 1923.] p. 401-412. figs. 25 cm. (Geografiska annaler. H. 4, 1923.)

Carpenter, Ford A.

Hythergraph: an instrument for recording humidity and temperature. Some of the local winds of the western coast of North America. Notes on the irregularities of ocean currents. p. 75-102. illus. 25 $\frac{1}{2}$ cm. (Bulletin Southern California acad. sci., v. 20, no. 3, May-June, 1924.)

Weather methods. Illustrated reprints. n. p. n. d. v. p. illus. 27 $\frac{1}{2}$ cm.

Davis, John King.

Willis Island, a storm warning station in the Coral sea ... With an introductory chapter by Griffith Taylor. Melbourne. 1923. 119 p. illus. plates. 22 cm.

Defant, Albert.

Die Windverhältnisse im Gebiete der ehemaligen Österr.-Ungar. Monarchie. Wien. 1924. 14 p. fig. plates. 30 $\frac{1}{2}$ cm. (Anhang zum Jahrbuche der Zentral-Anstalt für Meteorologie und Geodynamik, Wien. Jahrg. 1920, neue Folge, 57. Bd.)

Diaz, Severo.

El primer año de previsión del tiempo en Guadalajara. pt. 1-2. Guadalajara. 1922-24. 2 pts. 28 cm.

Eriksson, J. V.

Mälarens isförhållanden vintrarna 1917/18-1921/22. Stockholm. 1924. 19 p. illus. plates. 31 $\frac{1}{2}$ cm. (Meddelanden från statens meteorologisk-hydrografiska anstalt. Bd. 2, No. 2.)

Farr, C. Coleridge.

Report on Samoan observatory. Wellington. 1924. p. 318-327 25 cm. (New Zealand journ. sci. & tech., v. 6, nos. 5-6, 1924.)

Friedley-Voshardt co., inc.

Weather vanes. Chicago. n. d. 16 p. illus. 23 cm.

Great Britain. Meteorological office.

International code for weather reports from ships at sea. London. 1924. 3 + p. forms. 33 $\frac{1}{2}$ cm.

Gregory, Richard.

British climate in historic times. Presidential address. n. p. n. d. unp. figs. 25 $\frac{1}{2}$ cm. (Repr.: Spring and summer nos., Geographical teacher.)

Hellmann, G.

Beitrag zur Gewitterkunde. Berlin. 1924. p. 43-51. 25 cm. (Extr.: Bericht über die Tätigkeit des Preuss. met. Inst., 1920-1923.) (Veröff. Preuss. met. Inst., Nr. 320.)

Herdman, William Abbott.

Founders of oceanography and their work; an introduction to the science of the sea. New York. 1923. xii, 340 p. front. illus. plates. 22 $\frac{1}{2}$ cm.

Hill, Leonard Erskine.

Sunshine and open air, their influence on health, with special reference to the Alpine climate. London. 1924. vii, 132 p. plates. diagrs. (1 fold.) 22 $\frac{1}{2}$ cm.

Home insurance co.

Rate manual. Rain insurance. General rules. [New York. 1924.] 18 p. 20 $\frac{1}{2}$ cm.

International geodetic and geophysical union. Section of meteorology.

Rapport sur la prévision du temps. Roma. 1924. 51 p. 23 cm. [Manifolded.]

Letzmann, Johannes.

Das Bewegungsfeld im Fuss einer fortschreitenden Wind- oder Wasserhose. Dorpat. 1923. 136 p. figs. 22 $\frac{1}{2}$ cm.

Lou, Kao.

Unification of meteorological signals. Peking. n. d. 3 p. figs. plates (fold.)

Lowdermilk, W. C., & Hsioh-li, Shen.

Summary university meteorological records. 1895-1923. [Nanking.] 1924. unp. 22 cm. (Univ. Nanking Agric. & forestry series. v. 1. no. 8.)

McConnell, W. J., & Yagloglou, C. P.

Katathermometer: its value and defects. p. 2293-2308. diagr. 23 $\frac{1}{2}$ cm. [With bibliography.] (U. S. Public health reports. v. 39, no. 36, Sept. 5, 1924.)

Mathias, E.

Rapport sur l'état actuel de l'électricité atmosphérique. Paris. 1922. p. 83-170. 23 cm. (Extr.: Annales de physique. 9e sér., T. 18, juil.-août, 1922.)

Medical directory. Health resort section.

Medical guide to the principal British spas and climatic health resorts. 1924-5 ... London. [1924.] 90 p. illus. plates. 25 cm.

Melander, G.

Sur l'origine commune de toutes les décharges électriques dans l'atmosphère. Helsinki. 1924. 30 p. illus. 25 cm. (Annales acad. scient. fennicae. ser. A., T. 23, No. 6.)

Mörikofer, Walter.

Beobachtungen zur Theorie des Malojawindes. [Basel. 1924.] 33 p. 23 cm. (Repr.: Jahressb. Naturforsch. Gesellsch. Graubündens. Bd. 63, 1924.)

Moltchanov, P.

Níekotoríja danníja o strukture vozdukh nizhnikh sloev atmosferi ... [Some information on the structure of the lower atmosphere.] Petrograd. 1918. 23 p. 25 $\frac{1}{2}$ cm. [Author, title and text in Russian.]

Mott, J. L., iron works.

Copper weather vanes. New York. n. d. 30 p. illus. 24 cm.